



EXPRESS MAIL NO. EV889129626US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Hironori Kakiuchi et al.  
Application No. : 10/717,831  
Filed : November 20, 2003  
For : OPTICAL RECORDING MEDIUM  
Examiner : Martin J. Angebranndt  
Art Unit : 1756  
Docket No. : 890050.449  
Date : May 11, 2007

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents:

In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Supplemental Information Disclosure Statement. Copies of cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of any other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

The Information Disclosure Statement is provided because of the Examiner's fourteen-way double patenting rejection, with which Applicants do not agree with and believe is improper. However, if the Examiner believes that the claims of the related cases are sufficiently

05/15/2007 SSITHIB1 00000017 10717831

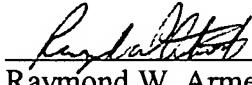
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similar to warrant a double patenting rejection, the art from the related co-pending applications might be considered relevant by the Examiner of the present application. Accordingly, the art of record in the above-identified co-pending applications, if not already disclosed, are disclosed out of an abundance of caution. This is the reason for the submission and the basis of relevance provided by Applicants' attorney.

Please acknowledge receipt of this Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application. A fee of \$180 is submitted in accordance with 37 CFR 1.97(d). The Director is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 19-1090.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC

  
Raymond W. Armentrout  
Registration No. 45,866

RWA:jr

Enclosures:

Check  
Supplemental Information Disclosure Statement  
Cited References (65)

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Sheet 1 of 9

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

ATTY. DOCKET NO.  
890050.449

APPLICATION NO.  
10/717,831

APPLICANTS

Hironori Kakiuchi et al.

FILING DATE

November 20, 2003

GROUP ART UNIT

1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	3,959,799	05/25/76	Gambino et al.	346	135	
AB	4,357,616	11/02/82	Terao et al.	346	135.1	
AC	4,405,706	09/20/83	Takahashi et al.	430	271	
AD	4,477,819	10/16/84	Lee et al.	346	76 L	
AE	4,500,889	02/19/85	Wada et al.	346	1.1	
AF	4,529,991	07/16/85	Wada et al.	346	76 L	
AG	4,587,533	05/06/86	Nakane et al.	346	135.1	
AH	4,609,611	09/02/86	Sigyo et al.	430	270	
AI	4,647,947	03/03/87	Takeoka et al.	346	135.1	
AJ	4,670,345	06/02/87	Morimoto et al.	428	411.1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
AK	1330368 A	01/09/02	China (with English abstract)		
AL	1365108 A	08/21/02	China (with English abstract)		
AM	0350078 A1	01/10/90	EP		
AN	0474311 A1	03/11/92	EP		
AO	0822543 A1	02/04/98	EP		
AP	0947351 B1	09/25/02	EP		
AQ	0978831 A2	02/09/00	EP		
AR	1028421 A2	08/16/00	EP		
AS	1139340 B1	06/16/04	EP		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AT Inoue, H., et al., "Inorganic Write-Once Disc for High Speed Recording," Jpn. J. Appl. Phys. Vol. 42, part 1, no. 2B, pp. 1059-1061, February 2003.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	4,682,321	07/21/87	Takaoka et al.	369	284	
	BB	4,771,413	09/13/88	Nago	369	109	
	BC	4,772,897	09/20/88	Ohkawa	346	135.1	
	BD	5,194,363	03/16/93	Yoshioka et al.	430	271	
	BE	5,208,088	05/04/93	Tominaga et al.	428	64	
	BF	5,297,132	03/22/94	Takano et al.	369	284	
	BG	5,325,351	06/28/94	Uchiyama et al.	369	275.1	
	BH	5,328,813	07/12/94	Strandjord et al.	430	321	
	BI	5,401,330	03/28/95	Saito et al.	136	259	
	BJ	5,414,451	05/09/95	Sugiyama et al.	347	258	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BK	1154413 A2	11/14/01	EP		
	BL	1215669 A2	06/19/02	EP		
	BM	1351230 A2	10/08/03	EP		
	BN	2336463	10/20/99	GB		
	BO	48-38	01/05/73	JP		
	BP	03-005929	01/11/91	JP (with English abstract)		
	BQ	03-258590	11/18/91	JP (with English abstract)		
	BR	05-159358	06/25/93	JP (with English abstract)		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BS		Narumi, K. et al., "45 GB Rewritable Dual-Layer Phase-Change Optical Disk with a Transmittance Balanced Structure," Technical Digest, International Symposium on Optical Memory 2001, Grand Hotel, Taipei, Taiwan, October 16-19, 2001, pages 202-203.
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5,458,941	10/17/95	Hintz	428	64.4	
	CB	5,459,018	10/17/95	Akahira	430	270	
	CC	5,560,998	10/01/96	Oyamatsu et al.	428	694 ML	
	CD	5,656,370	08/12/97	Murakami et al.	428	332	
	CE	5,818,808	10/06/98	Takada et al.	369	116	
	CF	5,871,881	02/16/99	Nishida et al.	430	270.11	
	CG	5,912,104	06/15/99	Hirotsune et al.	430	270.13	
	CH	5,948,496	09/07/99	Kinoshita et al.	428	64.1	
	CI	5,949,747	09/07/99	Miyashita et al.	369	54	
	CJ	5,958,649	09/28/99	Hirotsune et al.	430	270.13	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CK	05-342631	12/24/93	JP (with English abstract)		
	CL	05-342635	12/24/93	JP (with English abstract)		
	CM	10-076755	03/24/98	JP (with English abstract)		
	CN	1-270528	10/27/89	JP (with English abstract)		
	CO	2000-187884	07/04/00	JP (with English abstract)		
	CP	2000-222764	08/11/00	JP (with English abstract)		
	CQ	2000-285509	10/13/00	JP (with English abstract)		
	CR	2000-297365	10/24/00	JP (with English abstract)		

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CS	Nikkei Electronics, May 12, 2003, pp. 119-133.
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	6,033,752	03/07/00	Suzuki et al.	428	64.1	
	DB	6,096,399	08/01/00	Yoshinari et al.	428	64.1	
	DC	6,111,851	08/29/00	Ohki et al.	369	286	
	DD	6,143,469	11/07/00	Ohta et al.	430	270.13	
	DE	6,210,860	04/03/01	Fukano et al.	430	270.12	
	DF	6,231,945	05/15/01	Miyamoto et al.	428	64.1	
	DG	6,245,404	06/12/01	Saito et al.	428	64.1	
	DH	6,254,966	07/03/01	Kondo	428	156	
	DI	6,266,299	07/24/01	Oshima et al.	369	13	
	DJ	6,278,680	08/21/01	Miyauchi et al.	369	112.01	
	DK	6,333,913	12/25/01	Yoshinari et al.	369	283	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	DL	2001-101709	04/13/01	JP (with English abstract)		
	DM	2001-222819	08/17/01	JP (with English abstract)		
	DN	2001-266402	09/28/01	JP (with English abstract)		
	DO	2001-322357	11/20/01	JP (with English abstract)		
	DP	2002-120458	04/23/02	JP (with English abstract)		
	DQ	2002-269808	09/20/02	JP (with English abstract)		
	DR	2002-329348	11/15/02	JP (with English abstract)		
	DS	2003-105738	04/09/03	JP (with English abstract)		
	DT	2003-178448	06/27/03	JP (with English abstract)		

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA	6,355,326	03/12/02	Lee et al.	428	64.1	
	EB	6,404,712	06/11/02	Lee et al.	369	47.53	
	EC	6,404,713	06/11/02	Ueki	369	47.53	
	ED	6,416,837	07/09/02	Kojima et al.	428	64.1	
	EE	6,528,138	03/04/03	Meinders et al.	428	64.1	
	EF	6,551,679	04/22/03	Kuroda et al.	428	64.1	
	EG	6,608,799	08/19/03	Hozumi	369	13.26	
	EH	6,611,481	08/26/03	Koishi et al.	369	47.53	
	EI	6,636,477	10/21/03	Miyamoto et al.	369	286	
	EJ	6,656,559	12/02/03	Mizushima et al.	428	64.1	
	EK	6,660,451	12/09/03	Sakaue et al.	430	270.13	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	EL	2003-260874	09/16/03	JP (with English abstract)		
	EM	2003-326848	11/19/03	JP (with English abstract)		
	EN	2003-054135	02/26/03	JP (with English abstract)		
	EO	2004-158134	06/03/04	JP (with English abstract)		
	EP	2004-039177	02/05/04	JP (with English abstract)		
	EQ	2004-087073	03/18/04	JP (with English abstract)		
	ER	3-49054	03/01/91	JP (with English abstract)		
	ES					

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	FA	6,670,014	12/30/03	Nishihara et al.	428	64.1	
	FB	6,751,184	06/15/04	Kojima et al.	369	275.2	
	FC	6,788,635	09/07/04	Aratani et al.	369	100	
	FD	6,791,926	09/14/04	Furumiya et al.	369	53.13	
	FE	6,805,935	10/19/04	Ashida et al.	428	64.1	
	FF	6,807,142	10/19/04	Nagata et al.	369	275.2	
	FG	6,841,218	01/11/05	Hosoda et al.	428	64.1	
	FH	6,929,840	08/16/05	Hosoda et al.	428	64.1	
	FI	6,982,111	01/03/06	Mizushima et al.	428	64.1	
	FJ	6,996,055	02/07/06	Mishima et al.	369	283	
	FK	7,002,887	02/21/06	Kakiuchi et al.	369	59.12	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	FL	4-298389	10/22/92	JP (with English abstract)		
	FM	54-133134	10/16/79	JP (with English abstract)		
	FN	56-124134	09/29/81	JP (with English abstract)		
	FO	57-027788	02/15/82	JP (with English abstract)		
	FP	59-225992	12/19/84	JP (with English abstract)		
	FQ	60-160036	08/21/85	JP (with English abstract)		
	FR	60-219097	11/01/85	JP (with English abstract)		
	FS	6-171236	06/21/94	JP (with English abstract)		

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA	7,018,694	03/28/06	Hosoda et al.	428	64.1	
	GB	7,142,496	11/28/06	Miyagawa et al.	369	59.11	
	GC	7,167,431	01/23/07	Miura et al.	369	59.11	
	GD	2001/0012257	08/09/01	Suzuki et al.	369	94	
	GE	2001/0017833	08/30/01	Yamada et al.	369	59.11	
	GF	2001/0041304	11/15/01	Uno et al.	430	270.13	
	GG	2001/0044073	11/22/01	Fukano et al.	430	270.12	
	GH	2002/0060979	05/23/02	Tsukuda et al.	369	275.4	
	GI	2002/0076646	06/20/02	Zhou et al.	430	270.13	
	GJ	2002/0110063	08/15/02	Yamada et al.	369	47.39	
	GK	2002/0160306	10/31/02	Hanaoka et al.	430	270.13	
	GL	2003/0086359	05/08/03	Lee et al.	369	275.3	
	GM	2003/0134229	07/17/03	Yasuda et al.	430	270.13	
	GN	2003/0165111	09/04/03	Flynn	369	288	
	GO	2003/0224215	12/04/03	Kondo et al.	428	694 ML	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	GP	62-204442	09/09/87	JP (with English abstract)		
	GQ	62-226440	10/05/87	JP (with English abstract)		
	GP	62-226442	10/05/87	JP (with English abstract)		
	GS	62-245545	10/26/87	JP (with English abstract)		

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	HA	2003/0228539	12/11/03	Hosoda et al.	430	270.13	
	HB	2004/0001418	01/01/04	Shinotsuka et al.	369	111	
	HC	2004/0013069	01/22/04	Uno et al.	369	59.11	
	HD	2004/0018334	01/29/04	Nee	428	64.1	
	HE	2004/0027652	02/12/04	Erdogan et al.	359	359	
	HF	2004/0052176	03/18/04	Narumi et al.	369	47.39	
	HG	2004/0241581	12/02/04	Kakiuchi et al.	430	270.12	
	HH	2005/0018590	01/27/05	Inoue et al.	369	275.2	
	HI	2005/0018591	01/27/05	Inoue et al.	369	275.2	
	HJ	2005/0018592	01/27/05	Inoue et al.	369	275.2	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	HK	6-262854	09/20/94	JP (with English abstract)		
	HL	7-235465	09/05/95	JP (with English abstract)		
	HM	9-007176	01/10/97	JP (with English abstract)		
	HN	01/93256 A1	12/06/01	WO (with English abstract)		
	HO	02/29787	04/11/02	WO (with English abstract)		
	HP	03/025924	03/27/03	WO (with English abstract)		
	HQ	1122723 A1	08/08/01	EP		
	HR	10-143919	05/29/98	JP (with English abstract)		
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	IA	2005/0047301	03/03/05	Inoue et al.	369	94	
	IB	2005/0047302	03/03/05	Inoue et al.	369	94	
	IC	2005/0047303	03/03/05	Inoue et al.	369	94	
	ID	2005/0047304	03/03/05	Inoue et al.	369	94	
	IE	2005/0047305	03/03/05	Inoue et al.	369	94	
	IF	2005/0047306	03/03/05	Inoue et al.	369	94	
	IG	2005/0048249	03/03/05	Inoue et al.	428	64.4	
	IH						
	II						
	IJ						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
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	IK					
	IL					
	IM					
	IN					
	IO					
	IP					
	IQ					
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